PROPOSITIONS

Patching up the crypt: Innate immune cells orchestrate intestinal regeneration

1. The presence of group 3 innate lymphoid cells (ILC3s) is important for regeneration after chemotherapy-induced small intestinal epithelial damage. (This thesis)
2. IL-22 is dispensable for small intestinal crypt recovery following injury. (This thesis)
3. ILC3s are required for intestinal stem cell homeostasis in the absence of inflammation. (This thesis)
4. ILC3-dependent YAP1 activation reveals immune-cell driven regulation of conserved epithelial repair programs. (This thesis)
5. Cryptopatches developed in mammals to fine-tune epithelial responses to tissue damage. (This thesis)
6. Understanding tissue regeneration *in vivo* is an important step towards reconstructing organs *in vitro.*
7. Manipulation of ILCs or the cytokines they produce may provide future therapeutic targets for patients with chronic intestinal inflammation.
8. The current under-representation of female scientists at faculty positions deprives science of feminine insight due to major distinguishers between male and female brains.
9. “The important thing in science is not so much to obtain new facts as to discover new ways of thinking about them”. Sir William Bragg.
10. Avoiding competition and encouraging cooperation during scientific publishing is important as cooperation is an important evolutionary force driving social life from microbes to humans. Inspired by Mutual Aid: A Factor of Evolution, Peter Kropotkin.
11. “Man is the most insane species. He worships an invisible God and destroys a visible Nature. Unaware that this Nature he’s destroying is this God he’s worshiping.” Hubert Reeves.